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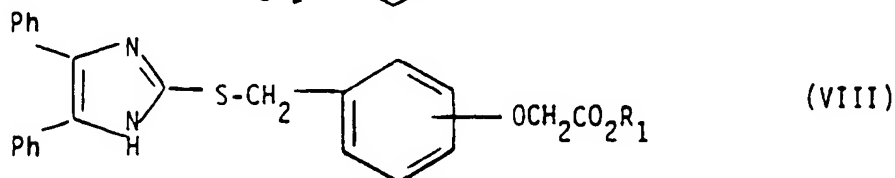
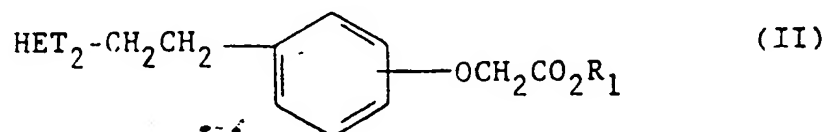
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54 Heterocyclic carboxylic acids and esters.

57 Heterocyclic acids and esters useful as inhibitors of mammalian blood platelet aggregation characterized by Formula I, II and VIII are disclosed.



Formula I compounds are those wherein n is 6-9, R is hydrogen, lower alkyl or an alkali metal ion, and HET₁ is heterocyclic radical selected from the group consisting of 3,4-diphenyl-1H-pyrrol-1-yl, 1,6-dihydro-6-oxo-3,4-diphenyl-1-pyridazinyl, 2,3-dihydro-3-oxo-5,6-diphenyl-1,2,4-triazin-2-yl, 1-oxo-4,5-diphenyl-2H-pyrimidin-1-yl, 2,5-dioxo-3,4-diphenylimidazolidin-1-yl, 5-(diphenylmethyl)-2H-tetrazol-2-yl, 4,5-diphenyl-2-thiazoyl, 4,5-diphenyl-1H-imidazol-2-yl, and 1,5-diphenyl-1H-pyrazol-3-yl.

Formula II compounds are those wherein R₁ is hydrogen, lower alkyl or an alkali metal ion, and the radical -OCH₂CO₂R is attached in the 3 or 4 ring position; and HET₂ is a heterocyclic radical selected from the group consisting of 4,5-diphenyl-2-thiazoyl, 4,5-diphenyl-1H-imidazol-2-yl, 3,4-diphenyl-1H-pyrazol-1-yl, 4,5-diphenyl-1H-pyrazol-1-yl, 1-5-diphenyl-1H-pyrazol-3-yl, 1,6-dihydro-6-oxo-3,4-diphenyl-1-pyridazinyl, 2,3-dihydro-3-oxo-5,6-diphenylmethyl-1,2,3-triazin-2-yl, and 5-(diphenylmethyl)-2H-tetrazol-2-yl.

Formula VIII compounds are those wherein R₁ is hydrogen, lower alkyl or an alkali metal ion, and the radical -OCH₂CO₂R is attached in the 3 or 4 ring position.



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EP 91 10 1958

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DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.5)
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A, D	US-A-4 168 315 (R.H. RYNBRANDT ET AL.) * claims 1,16 *	1, 10, 12	C07D239/36 C07D233/72 C07D257/04
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A	EP-A-0 054 593 (SANOFI, S.A.) * claims 1,3 *	1, 10, 12	C07D233/84 A61K31/40 A61K31/41
A, D	US-A-4 330 550 (H.-H. LAUTENSCHLAGER ET AL.) * column 3, line 49 - line 59; claim 1 *	1, 12	A61K31/415 A61K31/425 A61K31/50
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A, D	US-A-4 826 868 (M.P. WACHTER ET AL.) * claims 1,12 *	1, 10	C07D
A, D	US-A-2 712 542 (J.A. KING ET AL.) * column 3, line 8 - line 13; examples *	1, 10	
A, D	US-A-3 453 285 (S. HAYAO ET AL.) * abstract; claim 1 *	1, 10	
A, D	US-A-3 506 679 (J.F. CAVALLA ET AL.) * abstract; claim 1 *	1, 10	
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The present search report has been drawn up for all claims			
Place of search BERLIN		Date of completion of the search 10 JUNE 1992	Examiner Christian Hass
CATEGORY OF CITED DOCUMENTS			
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document			
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons A : member of the same patent family, corresponding document			



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DOCUMENTS CONSIDERED TO BE RELEVANT		
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim
A	US-A-4 734 421 (M. L. HAMMOND ET AL.) * example 7 * -----	3
The present search report has been drawn up for all claims		
Place of search BERLIN		Date of completion of the search 10 JUNE 1992
Examiner Christian Hass		
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons @ : member of the same patent family, corresponding document		